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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/008,472

11/09/2001

David Hohl

LIFE052

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7590

05/28/2004

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EXAMINER

LIANG, REGINA

ART UNIT

PAPER NUMBER

2674

10

DATE MAILED: 05/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/008,472

Applicant(s)

HOHL ET AL.

Examiner

Regina Liang

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2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 April 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,2,4-12 and 14-45 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 37-45 is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4-12, 14-36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. Claims 1, 2, 4, 11, 12, 14, 20-28, 32, 33 are rejected under 35 U.S.C. 102(e) as being anticipated by Hoeksma (US. PAT. NO. 6,271,835).

As to claims 1, 11, 20-22, 24-26, Fig. 2 of Hoeksma discloses a data entry device, comprising a keypad including a plurality of first keys or primary keys (keys 220, 221 and 223 are interpreted as first keys or primary keys) and a plurality of second keys or secondary keys (keys 225, 227, 229), the first keys each having at least one primary alphanumeric character associated therewith (e.g., first key 223, characters "M N O" are primary characters), at least one of the first keys having at least one secondary alphanumeric character associated therewith (characters "P Q R" are secondary characters), and the second keys (keys 225, 227, 229) configured to display one of the secondary alphanumeric character (P Q R) on each of the second key upon actuation of one first key (223). Hoeksma also discloses the at least one primary alphanumeric character and the at least one secondary alphanumeric character are different from each other (e.g., in the first key 223, M, N or O primary alphanumeric character is different from P, Q or R secondary alphanumeric character).

As to claims 2, 12, 23, 27, Hoeksma teaches a display field operatively coupled to the keypad, and configured to selectively display the characters.

As to claims 4, 14, Hoeksma teaches a touch screen in a superimposed relationship with the keypad.

As to claim 28, 32, 33, Hoeksma teaches entering a plurality of characters on the keypad to form a character string displayed on the display screen and processing data associated with the character string and entering the data into the memory (see Fig. 1 and col. 3, lines 62-65).

***Claim Rejections - 35 USC § 103***

3. Claims 5-10, 15-19, 29-31, 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoeksma in view of Will (US. PAT. NO. 5,825,353).

Hoeksma teaches the data entry device comprising a memory, a direct memory access controller, stored programming, a display controller (see Fig. 1). Hoeksma does not disclose the data entry device comprising a cyclic redundancy check circuit. However, Will teaches an input device comprising a cyclic redundancy check function in the microprocessor to perform a check value for the data (col. 6, lines 31-62). Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the data entry device of Hoeksma to have the cyclic redundancy check circuit as taught by Will to make sure that there is no error in the data inputted.

***Allowable Subject Matter***

4. Claims 37-45 are allowed.

***Response to Arguments***

5. Applicant's arguments filed 4/19/04 have been fully considered but they are not persuasive.

Applicant's remarks regarding Hoeksma on page 11-12 are not persuasive. Hoeksma teaches the at least one primary alphanumeric character and the at least one secondary alphanumeric character are different from each other (e.g., in the first key 223, M, N or O

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primary alphanumeric character is different from P, Q or R secondary alphanumeric character).

Therefore, Hoeksma anticipates the claimed subject matter.

***Conclusion***


6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Regina Liang whose telephone number is (703) 305-4719. The examiner can normally be reached on Monday-Friday from 9AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

  
REGINA LIANG  
PRIMARY EXAMINER  
ART UNIT 2674

R.L.  
5/27/04.